

# managing risk with responsibility

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Jeffrey S. Moquin, Director Risk Management Department

July 27, 2006 Signature on File

TO: Mr. Frank Zagari, Principal

**Indian Ridge Middle School** 

FROM: Kenneth I. Partee, Project Manager Occupational Health and Environmental Control

Risk Management Department

SUBJECT: Indoor Air Quality (IAQ) Assessment

Portable 397C

On July 26, 2006 I conducted an assessment of Portable 397C at **Indian Ridge Middle School**. This evaluation included observations of the flooring system, ceiling tiles, false ceiling plenum, environmental surfaces, interior and exterior walls, and the accessible ventilation equipment. Additionally, environmental parameter measurements were taken to include temperature, relative humidity, and carbon dioxide. The detailed findings, along with the recommended corrective action can be found on the attached IAQ Assessment Worksheets.

The IAQ assessment did identify one or more existing conditions impacting IAQ and has generated appropriate work orders to correct deficiencies in systems and maintenance that could contribute to decreased indoor air quality. At the time of the assessment, these concerns were not an immediate health or safety concern to building occupants. However, due to individual sensitivities and predisposing health factors, it is possible that some building occupants may elicit a health response to agents and / or conditions identified during the evaluation. Therefore, to further improve IAQ, prevent development of future IAQ-related problems, and to reduce the potential for IAQ-related complaints by building occupants, the IAQ Assessment Team recommends appropriate follow up of each item identified and listed in the attached evaluation.

Should any questions arise, or if the current concerns continue after the attached recommendations have been addressed, please feel free to contact me at 754-321-3200.

cc: Dr. Verda Farrow, Area Superintendent

Kevin Sawyer, Area Director

Jeffrey S. Moquin, Director, Risk Management

James Carballo, Project Manager, Facilities and Construction Management

Ralph Eckhardt, Broward Teachers Union

Mark Dorsett, Manager 1, Physical Plant Operations Division, Zone 1

Roy Norton, Manager Custodial/Grounds, Physical Plant Operations Division Robert Krickovich, Coordinator, LEA, Facilities and Construction Management

KP/tc Enc.

Indian Ridge Middle School					Evaluation Requested July 25, 200			5, 2006	
Time of Day	10:35 am	]			Eva	luation Date	July 26	5, 2006	
Outdoor Condi	itions Ten	nperature 9	94.4 R	Relative Humidity 53.1 Ambient CO2 46				463	
l		Range Rela	tive Humidity	Range	CO2	Ran	ige # (	Occupants	
P - 397C	75.4	72 - 78	46.4	0% - 60%	523	Max 700	> Ambient	1	
Noticeable Odor Yes			Visible water Visible microbial Amount of material damage / staining? growth? affected				terial		
Ceiling Type	pe 2 x 4 Lay In		Yes No			1 ceiling tile			
Wall Type	Tackboa	rd	Yes No			3 - 4'x8' Sections			
Flooring	Tile		No	No			None		
	Clean	Minor Dust / Debris	Needs Cleaning		Correctiv	e Action Re	equired		
Ceiling	No	No Yes Yes				Replace ceiling tile			
Walls	No	Yes	Yes		Repair/replace as a				
Flooring	Yes	No	No						
HVAC Supply	Grills No	Yes	Yes		Clean with V	Vexcide dis	infectant		
HVAC Return	Grills No	Yes	Yes		Clean with V	Vexcide dis	infectant		
Ceiling at Sup Grills	ply					N/A			
Surfaces in Ro	oom Yes	No	No						

IAQ Assessment

**Location Number** 

## **Observations**

### Findings:

- Moisture in light diffusers
- Stained ceiling tile at emergency light
- Dust and debris on HVAC supply and return grills
- Dust and debris on A/C filters
- Elevated moisture levels in West (20-50), East (20-80+) and South (18-35+) walls and 3 wall sections are bowed
- Dust and debris on HVAC coils

#### Recommendations:

#### Site Based Maintenance:

- Clean HVAC supply and return grills with Wexcide disinfectant solution
- Remove and replace A/C filters
- Ensure that both A/C units are running and moderated to control elevated moisture
- Continue to monitor this location for any signs of microbial growth as well as dust and debris accumulation and clean as appropriate

## Physical Plant Operations:

- Evaluate cause of elevated moisture in West, East and South walls and repair. Replace wall material as appropriate.
- Evaluate cause of stained ceiling tile at emergency light and repair. Replace stained ceiling tile.
- Clean HVAC coils
- Note There is no insulation installed in ceiling